

RUDRYAVTSEV, N.T.; MEL'NIKOVA, M.M.; ZHAGRIN, V.Ye.

Some regularities of the cathodic process in the electrodeposition
of iron-zinc alloy from a boron hydrofluoric electrolyte. Zhur.
prikl. khim. 37 no.9:1946-1951 S '64.

(MIRA 17:10)

AGAFONOV, V.A., inzh., ZHAGROV, Ye.A., inzh.

Investigating sliding bearings of high-speed machines. Vest.mash.
40 no.12:29-32 D '60. (MIRA 13:12)

(Bearings (Machinery))

S/122/60/000/012/007/018
A161/A130

AUTHORS: Agafonov, V. A., and Zhagrov, Ye. A., Engineers

TITLE: An investigation method for journal bearings of high-speed machines

PERIODICAL: Vestnik mashinostroyeniya, no. 12, 1960, 29 - 32

TEXT: The Tsentral'nyy kotloturbinnyy institut imeni I. I. Polzunova (Central Boiler and Turbine Institute imeni I. I. Polzunov) has conducted experiments and studied the behavior of the oil wedge in plain journal bearings of types used for turbine shafts. The special test rig (Fig. 1) is described. The bushings were made of transparent organic sheet glass, a thermocouple built in to contact oil inside, small 2.25 w light bulbs inserted into the glass bushings close to work surface, and the oil film photographed with a "Kiyev" camera. The second (not studied) shaft bearing in the rig was of self-adjusting radial-spherical type. The maximum shaft velocity was 6,000 rpm, oil temperature 50 - 60°C, sliding velocity 30 - 35 m/sec, and load up to 6 kg/cm². Static load was produced by a lever system, and centrifugal load by weights on the rotor wheel. A photo shows clearly that the oil film split into filaments in the upper half of the bush. Pressure within the oil film was measured with an especially built set. Its work principle

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An investigation method for...

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is frequency modulation. The high-frequency oscillator is built on an especially chosen П1Е (PIYe) transistor and has contactless communication to the receiver. The produced signal frequency is from zero to 20 kc, which is more than sufficient for the purpose. The article includes detailed description of this system operation. The oscillator was enclosed into an organic glass cylinder together with the feed unit consisting of 1.5 voltaic cells and placed into the shaft bore. The measured values were recorded with a МНО-2 (MPO-2) loop oscillograph. The relative gap in this bearing was 0.0023 (taking the bush length for unit). A considerable zone of pressure below the atmospheric was obviously present in the half of the bush free of load. It was stated in numerous measurements of the hydrodynamic pressure distribution that vacuum in the half free of load bearing reached 700 mm Hg and more at high sliding speed, despite the relatively high oil feed pressure (up to 3.5 kg/cm²). The trajectory of the shaft axis motion was measured with an electronic instrument, designed at the Central Boiler and Turbine Institute. It included small inductive pickups placed in two planes at right angles. The method may be employed for determining the oil film depth in bearings. There are 5 figures and 1 Soviet-bloc reference.

Card 2/4

ZHAGROVA, L.F., inzhener

Static characteristics and critical slippage of a machine with
transverse-longitudinal excitation. Izv. vys. ucheb. zav.; energ.
5 no.7:1-8 J1 '62. (MIRA 15:7)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena
kafedroy elektricheskikh stantsiy.
(Electric machinery)

ZHAGROVA, L.F., inzh.

Dynamic stability of machines with longitudinally-transverse field
excitation and method for compensating the reactive resistance of the
rotor winding. Izv. vys. ucheb. zav.; energ. 5 no.9:1-8 3 '62.
(MIRA 15:10)

1. Moskovskiy ordena Lenina energeticheskiy institut.
Predstavlena kafedroy elektricheskikh stantsiy.
(Electric machinery)

DANILEVICH, M.G.; ZHAGULO, Ye.M.; KURILEVA, O.M.

Scarlet fever today and leading problems in its control. *Pediatrics*
39 no.4:3-10 J1-Ag '56. (MLHA 9:12)

1. Iz Leningradskogo pediatricheskogo meditsinskogo instituta (dir. -
prof. N.T.Shutova) i kafedry detskikh infektsionnykh bolezney (zav. -
prof. M.G.Danilevich)
(SCARLET FEVER, prev. and control
in Russia)

ZHAGPAROVA, M. Zh.

20943 Zhagparova, M. Zh. K Voprosu o primeneniі metoda RSK pri pleuropnevmonii (kebeneke) koz. Izvestiya Akad. Nauk Kazakh. SSR, No. 61, Seriya biol., vyp. 4, 1949, s. 39048.--Rezyume na Kazakh. yaz.

SO: LETCPIIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

ZHAGRIN, A.G.

Method for the removal of neuro-ectodermal cerebral tumors [with
summary in English]. Vop,neirokhir. 22 no.3:45-47 My-Je '58 (MIRA 11:8)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni
institut neyrokhirurgii imeni akad. N.N. Burdenko AMN SSSR,
(BRAIN NEOPLASMS, surgery
neuro-ectodermal tumors (Rus))

KOREYSHA, L.A., prof.; ZHAGRIN, A.G.; LYASS, F.M.; SPIRIN, B.G.; GABELOVA,
N.A., (Moskva)

Study of hemodynamics in patients with focal diseases of the
central nervous system with the aid of labelled sodium. Vop.
neirokhir. 27 no.1 Ja-F '63. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut neyrokhirurgii imeni
N.N.Burdenko AMN SSSR.
(NERVOUS SYSTEM—DISEASES) (SODIUM ISOTOPES)
(BLOOD—CIRCULATION)

ZHAGRIN, A. G.

ZHAGRIN, A. G. - "Surgical Approach for the Removal of Cranioorbital Tumors."
Acad Med Sci USSR, Moscow, 1954.
(Dissertation for the degree of Candidate in Sciences)

SO: Knizhnaya Letopis', No. 33, 1955, pp. 85-87

ZHAGRIN, A.G.

Anatomical characteristics of the anterior cranial fossa and the orbit important in simultaneous surgery of the orbit and cranial cavity. Vop. neirokhir. 18 no.5:10-17 8 -0 '54. (MLRA 7:11)

1. Iz Instituta neyrokhirurgii imeni N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(ORBIT, surgery,

simultaneous surg. of orbit & cranium, anat. aspects)

(CRANIUM, surgery,

simultaneous surg. of orbit & cranium, anat. aspects)

ZHAGRIN, A.G.

Surgical approach to cranio-orbital tumors. Vop.neirokhir. 19 no.3:
37-43 My-Je '55. (MLRA 815)

1. Iz Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni
instituta neyrokhirurgii imeni akad. N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(ORBIT, neoplasms,
surg., approach)

ACC NR: AP6021466

SOURCE CODE: UR/0143/66/000/011/0085/0086

INVENTOR: Zhagullo, O. M.

ORG: None

TITLE: An automatic color pyrometer. Class 42, No. 182368

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 85-86

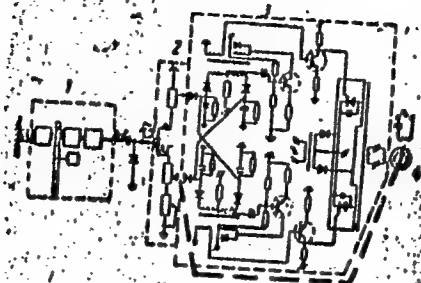
TOPIC TAGS: optic pyrometer, electronic measurement

ABSTRACT: This Author's Certificate introduces an automatic color pyrometer which contains a pickup connected through a synchronous switch to an alternating square pulse circuit followed by a circuit for comparing two signals. The unit is designed for eliminating the effect which the finite limits of the dynamic range in the electronic channel of the measurement system have on the operation of the pyrometer over a wide temperature interval. A blocking generator in the comparison circuit of the pyrometer is connected at the output through a controlled diode to the reversible electric motor of the indicator.

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UDC; 536.521.082.52

ACC NR: AP6021466



1--pickup; 2--measurement system; 3--
comparison circuit; 4--reversible elec-
tric motor

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SUB CODE: 09, 14/ SUBM DATE: 20Feb65

Card 2/2

ZHAGULO, P.M.

Automation of machining on centerless grinding machines at the
Gor'kiy Automobile Plant. Trudy Stud. nauch. ob-va LIEI no.3;
81-87 '59.
(MIRA 16:10)

KUZ'MICHEVA, A.T.; ZHAGULLO, Ye.M.

Some tasks in the control of Botkin's disease in children. Top.
okh.mat.1 det. 8 no.3:3-8 Mr '63. (MIRA 16:5)

1. Iz kafedry infektsionnykh bolezney u detey (zav. A.T. Kuz'micheva) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. Ye.P. Semenova).

(HEPATITIS, INFECTIOUS)

ZHAGULO, Ye. M.; KURYLEVA, O. M.; DANILEVICH, M. G.

"Modern status of the problem of combatting scarlet fever."

Report submitted by the 13th All-Union Congress of Hygienists,
Epidemiologists and Infectionists. 1959

ZHAGYARAL, N., kand.ekonom.nauk, red.

[The Mongolian People's Republic] Mongol'skaia Narodnaia
Respublika. Ulan-Bator, Komitet nauk Mongol'skoi Narodnoi
Respubliki, 1956. 123 p.
(Mongolia) (MIRA 13:7)

The Behaviour and Drawbacks of Refractories used in the Production of High-Grade Steels. A. Zhak. (Stal, 1939, No. 4-5, pp. 50-59). (In Russian). An extensive review is presented of the various types of refractory products (bricks, stoppers, nozzles, mould stools, hot-top mould linings, ladle linings, &c.) and of the service they have given. Silica fireclay, andalusite, carburised fireclay, graphite, magnesite, magnesium silicate (forsterite), fused magnesite and dolomite refractory products are all considered.

2-17-73

Aluminothermal synthesis of magnesium aluminate.
 R. L. PEVNER, A. G. ZHAR, A. N. MIKHAYLOV, B. V.
 IVANOV, AND G. LOMAKIN. *Comp. rend. acad. sci.*
 U.S.S.R. 33, 333-35 (1947); abstracted in *Chem. Zentr.*
 1947, II [1:2] 73. So-called "thermitospinel" are made
 by a new process based on the Goldschmidt method, i.e.,
 without using electrical energy. The starting material
 was trivalent aluminum 34, iron scale 60, and magnesite
 5%. A cast piece of thermitospinel, gray in color and 60
 mm. thick, showed a fine-crystalline exterior zone and a
 dense columnar interior zone with slate-like crystals, high
 porosity, and metallically bright fracture. Index of re-
 fraction was 1.720 \pm 0.003. Small amounts of colorless
 glass (refractive index 1.640) and a black mass of probably
 iron oxide or metallic iron were present. Absorption was
 1.85%, specific gravity 3.38, and apparent porosity 0.23%.
 M.IIA.

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ASAC-51A METALLURGICAL LITERATURE CLASSIFICATION

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ZHAK, A.M., inzh.

Making ferromanganese from a sinter of Nikopol' deposit
manganese ores. Met. i gornorud. prom. no.5:9-10 S-0 '63.
(MIRA 16:11)

1. Metallurgicheskiy zavod im. Petrovskogo.

KOROBov, I.I., inzh.; SUROVOV, V.I., inzh.; GONCHAROV, P.G., inzh.; ZHAK,
A.M., inzh.

Process of making ferromanganese in the blast furnace. Stal' 21
no.2:107-108 F '61. (MIRA 14:3)

1. Metallurgicheskiy zavod im. Petrovskogo.
(Ferromanganese)

GIMMEL'FARB, A.A., kand. tekhn. nauk; LIKHORADOV, A.P.; ZHEMBUS, M.D.;
ZHAK, A.M.

Increasing the strength of fluxed sinter. Met. i gornorud.
prom. no.6,7-11 N-D '65. (MIRA 18:12)

LIKHORADOV, A.P.; ZHIGULIN, V.I.; ZHEMBUS, M.D.; RUDAKOV, V.F.; KOTOV, K.I.;
ZHAK, A.M.; TSYMBALYUK, V.Yu.; FILIMONOV, V.V.

Service of the lining and cooling equipment of a blast furnace
in the smelting of ferromanganese. Metallurg 10 no.10:12-14
0 '65. (MIRA 18:10)

1. Zavod im. Petrovskogo.

COMMON ELEMENTS										PROCESSES AND PROPERTIES INDEX										COMMON VARIABLES INDEX									
MATERIALS INDEX										1ST AND 2ND DEGREE										1ST AND 2ND DEGREE									
<p>Crucibles for high-frequency steel-melting furnace. A. T. Zhak and B. V. Ivanov. <i>Ogneupory</i> 7, 157 (1939).--Batches suggested for crucibles are: (1) fused MgO with Ca(OH)₂ as binder; (2) fused MgO with a binder of wet ground fused MgO; (3) MgO alone; and (4) burnt dolomite. R. R. Stefanowsky</p>																													
<p>ASM-A6A METALLURGICAL LITERATURE CLASSIFICATION</p>																													
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PROCESSING AND PROPERTIES INDEX																			
<p>CA</p>										<p>19</p>									
<p>The quality requirements of refractories in the production of special steels. A. T. Zhuk. <i>Openpy</i> 1989, No. 6, 912-90. <i>Khem. Referat. Zhur.</i> 1989, No. 6, 77. Requirements for refractories used in blast furnaces, etc. are described. <i>Refractories, steel-pouring ladles, etc., are described. New highly refractory materials and light refractories are discussed.</i> W. R. Hena</p>																			
<p>ASR-51A METALLURGICAL LITERATURE CLASSIFICATION</p>																			
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<p>6A</p> <p>The use of joining material and sulfite liquor in the casting of refined steels. A. T. Zhuk and B. P. Mikhomovskii. <i>Kharkovskaya Stal</i> 5, No. 4, 67-68 (1937); <i>Chem. Zentr.</i> 1937, II, 3462. The use of a mixt. of quartz sand 65, clay 10 and foundry graphite 25% for the production of glazes on steel mill chill molds for refined steels is reported. Data are also given on the use of a mixt. of 70% quartz sand and 30% refractory clay which, after the drying, is painted on the chill molds with sulfite liquor. M. G. M.</p>																																																			
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Zhak, A. T. LIFE AND DISADVANTAGES OF REFRACTORIES IN THE METALLURGY OF SPECIAL STEELS. *Stal*, 1939 [4-5] 50-60. — Various refractories, their application in metallurgical aggregates, and their disadvantages are discussed. The following refractories are reviewed: (1) silica brick, (2) siphon brick, (3) stoppers, (4) grog brick, (5) andalusite stoppers, (6) carbon grog brick, (7) magnesite brick, (8) dolomite brick, and (9) dunite brick.

1ST AND 2ND LETTER													1ST AND 2ND CODES													3RD AND 4TH CODES													5TH GROUPS												
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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z													1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 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<p>Zhak, A. T. QUALITY REQUIREMENTS OF REFRACTORIES IN THE PRODUCTION OF SPECIAL STEELS. <i>Ogneupory</i>, 7 (5) 312-30 (1939).—The properties of refractories used in the production of different types of steels are enumerated.</p>																																																																													

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<p><i>Zhak, A. I. GANISTER BRICK WITH MELICA AS BINDER. Kachestvennyy Stal, 5 [9] (1937).—A note on the importance of high softening point for ganister brick used in open-hearth and electric furnaces is presented. Attempts were made to increase the softening point of lime ganister brick by using a clay-like wet-milled quartzite as binder. Details on the preparation of this quartzite are given.</i></p>																																																							

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characterized by the presence of a small quantity of natural minerals, such as
quartz and feldspar. The addition of slightly melting feldspar aids the binding
of the mortar with brick without decreasing the refractoriness. (3) The durability
of dolomite brick in the walls of an electric arc furnace is about 2 to 3 times
greater than that of magnesite brick.

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<p>Zhuk, A. T. SILICA BRICK OF THE BELMONTKIL WORKS IN THE ARCHES OF OPEN-HEARTH FURNACES. <i>Ogneupory</i>, 3 (8) 642-47 (1935).</p>																																																			

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<p>Zhak, A. T., and Ivanov, B. V. CRUCIBLES FOR HIGH-FREQUENCY STEEL-MELTING FURNACES. <i>Ognespoy</i>, 7 [2-3] 157-64 (1939).—The life of crucibles for high-frequency steel-melting furnaces is discussed. The problem of increasing the stability of linings of crucibles can be solved only by extensive studies. Several refractory linings are analyzed: (1) a mix of melted magnesite with a bond of lime milk, (2) a mix of melted magnesite with a bond of wet ground melted magnesite, (3) a mix used in Sweden composed of MgO, and (4) a dolomite mix used in England.</p>																																																																													

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High-frequency amplifier for the "Baltika" radio receiver.
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AUTHOR: Zhak, D. SOV-2-58-9-10/15

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ABSTRACT: This is a review of the above-mentioned book.

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Oct 1947

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Makarskiy, A.I., and N.D. Balmer. Some Theoretical and Practical Prob-
lems of Steel Degassing

Chernov, V. A., *Temperature and Yield Behavior. The Effect of Temperature on the Mechanical Properties of Metals*, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 26

F. M. Jewell and T. N. Shattuck. Vacuum Treatment of Molten Transformer Steel and of SAE 5 Steel. A.S. Shreve, P. S. Pridemore, A. M. Gilman, L. A. Reed, H. O. Condit, and J. E. H. Smith.

Butskury, P.K., L.N. Mol'nikov and M.Kh. Buzida. Investigation of vacuum

Belarus-2, and 3. Etsechka. (Zachodslonak People's Republic, Pizna Plant
Use of Vacuums for Raising the Quality of Aluminium Alloys
241

219 *Don't Confuse Russian People's Republic, Institute of Iron Metallurgy in Cleveland*.
German Military and Pouring of Alloyed Carbon Steel

Outcast Viki, H.A. Karsner and A.M. Semakia. Desulfurization of Molten Iron Alloys in Vacuo

230 AND V. V. KODOLAKI, Destruction of Homocyclic Imidazoles in the Thermal Treatment of Steel

Removal of Steel Decarburization in Vacuum by Means of a Mass Spectrometer 263

Investigation of the Activation of Nitrogen on the Activity of Silicon in Molten Cast Iron

ZHAK, I. YE.

PA 192T64

USSR/Mathematics - Series, Convergence of 1951

"Absolute Convergence of Binary Fourier Series,"
I. Ye. Zhak, Stalingrad Pedagogic Inst

"Soob Ak Nauk Gruz SSR" Vol XII, No 3, pp 129-
133

Hardy's theorem on the convergence of a sum of
coeffs of Fourier-Lebesgue function $f(x)$ is
shown to be applicable to binary Fourier-Lebes-
gue series in a definite sense. Submitted
14 Oct 50 by V. D. Kupradze, Act Mem, Acad Sci
Georgian SSR.

LC

192T64

ZHAK, I. Ye.

Mathematical Reviews
Vol. 14 No. 11
Dec. 1953
Analysis

Žak, I. E. On Riemann summability of double numerical series. Soobščeniya Akad. Nauk Gruz. SSR 13, 587-593 (1952). (Russian)

A double series $\sum a_{m,n}$ is evaluable to L by the Riemann method $R(2, 2)$ if $\lim_{x,y \rightarrow 0} f(x, y) = L$ where

$$f(x, y) = \sum_{m,n=0}^{\infty} \left(\frac{\sin mx}{mx} \right)^2 \left(\frac{\sin ny}{ny} \right)^2 a_{m,n}$$

and is restrictedly evaluable to L if, for each $\lambda > 1$, $f(x, y) \rightarrow L$ as $x, y \rightarrow 0$ subject to the restriction $\lambda^{-1} < |x/y| < \lambda$. Some convergent series $\sum a_{m,n}$ having unbounded partial sums $S_{m,n}$ fail to be evaluable $R(2, 2)$. It is shown that if $\sum a_{m,n}$ converges to S and if constants K, α, β exist such that $0 < \alpha, \beta < 1$ and $|S_{m,n}| < K(m+1)^\alpha(n+1)^\beta$, then $\sum a_{m,n}$ is restrictedly evaluable $R(2, 2)$ to S . R. P. Agarwal.

Stalingrad Pedagog. Inst. im. S. A. Serdyukovich

ZHAK, I. Ye.

PA 237T80

USSR/Mathematics - Binary Series

Nov/Dec 52

"Conjugate Binary Trigonometric Series," I. Ye.
Zhak, Stalingrad

"Matemat Sbor" Vol 31 (73), No 3, pp 469-484

Generalizes A. Zygmund's study of ordinary Fourier series $f(x)$ and its conjugate $\bar{f}(x)$ to subject case. Concludes that results obtained can be transferred to trigonometric series of arbitrary multiplicity. States that Zygmund's study of the single case is of sufficient thoroughness. Considers problem of uniform convergence of binary case. Submitted Jan 52.

237T80

USSR/Mathematics - Adjoint Functions 21 Dec 52

"A Theorem of L. Cesari on Adjoint Functions of Two Variables," I. Ye. Zhak, Stalingrad Agricultural Inst

"DAN SSSR" Vol 87, No 6, pp 877-880

Until recently only one work, due to Cesari, has been devoted to properties of adjoint functions of two variables. Recently it was established that the principal theorem of this work is incorrect (proved in this article). At the same time it is demonstrated that I. I. Privalov's well known theorem

240185

for two variables (cf. A. Zygmund, Trigonometric Series) does not generally hold true. Presented by Acad M. A. Lavrent'yev 29 Oct 52.

ZHAK, I. YE.

240185

FD-1022

USSR/Mathematics - Summation of double series

Card 1/1

Pub. 64 - 2/9

Author :

Zhak, I. Ye. (Stalingrad), and Timan, M. F. (Dnepropetrovsk)

Title :

Summation of double series

Periodical :

Mat. sbor., 35(77), No 1, 21-56, Jul-Aug 1954

Abstract :

The authors remark that the problems of the summation of multiple series have been still little investigated. In the present work they discuss the new concepts of bounded regularity and bounded summability in connection with a study of the (C,a,b) and (A) summations of double numerical series. They also discuss the problems of summing double trigonometric series, particularly double Fourier-Lebesgue series. Seventeen references, 11 USSR (e.g. A. S. Bezlyudnyy, Dissertation, Dnepropetrovsk, 1949; V. G. Chelidze, Soobshch. AN GruzSSR, VIII, No 6 (1947); I. I. Ogiyevetskiy) and 6 Western (e.g. G. Robinson, 1926; K. Knopp, 1939; M. T. Cheng, 1942; O. Szasz, 1942; B. Prasad, 1933).

Institution :

Submitted :

15 December 1952

ZHAK, I. E.

USSR/ Mathematics - Conjugated functions

Card : 1/1

Authors : Zhak, I. E.

Title : Zygmund's theorem on conjugated functions

Periodical : Dokl. AN SSSR, 97, Ed. 3, 387 - 389, July, 1954

Abstract : Formulates I. I. Privalov's theorem for 2π -periodic functions, $f(x) \in \text{Lip } \alpha$, when $0 < \alpha < 1$, and functions conjugated with the $f(x)$. Formulates the Zygmund theorem on the same functions. States that the Zygmund theorem is used in cases where $\alpha = 1$, when Privalov's theorem has no meaning. The author proves that Zygmund's and Privalov's theorems are not applicable to conjugated functions with two variables. Four references.

Institution : A. S. Serafimovich Pedagogical Institute in Stalingrad

Presented by : A. N. Kolmogorov, Academician, May 12, 1954

ZHAK, I.Ye.

Applications of S.N.Bernshtein's and I.I.Privalov's theorems.
Soob.AN Gruz.SSR 16 no.3:185-190 '55. (MLRA 9:7)

1.Stalingradskiy gosudarstvennyy pedagogicheskiy institut imeni
A.S.Serafimovicha. Predstavleno deystvitel'nym chlenom Akademii
V.D.Kupradze.
(Trigonometrical functions)

L 25631-66 EWT(d) IJP(c)

ACC NR: AP6016070

SOURCE CODE: UR/0251/65/029/001/0015/0019

AUTHOR: Zhak, I. Ye.

ORG: Volgograd Institute for City Management Engineers (Volgogradskiy institut inzhenerov gorodskogo khozyaystva)

TITLE: Properties of conjugate functions of two variables in the metric L_p (p is equal to or greater than 1)

SOURCE: AN GruzSSR. Soobshcheniya, v. 39, no. 1, 1965, 15-19

TOPIC TAGS: mathematics, function

ABSTRACT: This article is a presentation of a proof of the following theorem: If the function $f(x,y)$ (2π -periodic with respect to each of the variables) satisfies the following condition in the quadrant $B_0: 0 \leq x \leq 2\pi, 0 \leq y \leq 2\pi$

$$\chi(\delta_1, \delta_2; f) = o(\delta_1^\alpha \delta_2^\beta) \quad (\delta_1, \delta_2 \rightarrow 0),$$

where $0 < \alpha, \beta < 1, p \geq 1$, then $\bar{f}(x,y)$ also satisfies this condition in the entire rectangle $Q: \varepsilon_1 \leq x \leq 2\pi - \varepsilon_1, \varepsilon_2 \leq y \leq 2\pi - \varepsilon_2$ ($0 < \varepsilon_1, \varepsilon_2 < \pi$).

This paper was presented by Academician V. D. Kupradze. Orig. art. has: 10 formulas. [JPRS]

SUB CODE: 12 / SUBM DATE: 24Aug64 / ORIG REF: 001

Card 1/1 FV

ZHAK, I.Ye.

Properties of adjoint functions of two variables in the
 L_p ($p > 1$) metric. *Sob. AN Gruz. SSR* 39 no.1:15-19 31 '65.
(MIRA 18:10)

1. Volgogradskiy institut inzhenerov gorodskogo khozyaystva.
Submitted August 24, 1964.

ZHAK, Isaak Yefimovich; VILENKIN, N.Ya., prof., red.; NEMTSOVA, L.G.,
red.; KORNIYEVA, V.I., tekhn.red.

[Differential calculus; textbook for pedagogical institutes]
Differentsial'noe ischislenie; uchebnoe posobie dlia pedagogi-
cheskikh institutov. Pod red. N.IA.Vilenkina. Moskva, Gos.
uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 403 p.

(MIRA 13:2)

(Calculus, Differential)

L 24472-66 ENT(m)/ENP(w)/I/ENP(t) IJP(c) JD/GS
 ACC NR: AT6010575 (N) SOURCE CODE: UR/0000/65/000/000/0064/0072

35
 B11

AUTHOR: Pogrebnoy, E. N.; Zhak, K. M.

ORG: Dnepropetrovsk Metallurgical Institute (Dnepropetrovskiy metallurgicheskiy institut)

TITLE: Intergranular deformation and fracture

SOURCE: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the plastic deformation of metals). Kiev, Naukova dumka, 1965, 64-72

TOPIC TAGS: crystal deformation, ferroalloy, silicon alloy, material fracture

ABSTRACT: The authors study changes in dislocation structure during intergranular deformation and fracture and the possibilities for intergranular fracture in the early stages of deformation in alloys where the fractures may be decorated by graphite which is segregated more rapidly on the surfaces of pores and cracks than in a dense matrix. Specimens of ferrosilicon with 0.028-0.35% C and 2.90-3.35% Si were hardened and quenched in water. The specimens were 20 mm in diameter. Rapid cooling caused high thermal stresses resulting in considerable deformation. The

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ACC NR: AT6010575

specimens were annealed at 650, 700, 750 and 800° with holding from 1 to 24 hr. Analysis of the dislocation structure in annealed specimens showed that intergranular deformation is accompanied by considerable accumulation of dislocations at the grain boundaries. The dislocations form complex patterns in boundary regions and at points where 3 grains come together. Intergranular deformation penetrates deeply into the crystal. The nature of the intergranular deformation is complicated by twins or slip bands at the contact boundary between 2 or 3 grains. At points of juncture between a twin and an intergranular boundary, "flare-shaped" plastic deformation regions are observed which spread out from the juncture deep into the adjacent grain. These flares consist of fibrous and branching slip lines which are characteristic for metals with a bcc lattice. The dislocation density in these zones is high and irregular. The experimental data indicate that cracks may be formed during intergranular deformation. The dislocations which accumulate at the grain boundaries during intergranular deformation and fracture are due to sources located close to the grain boundaries. Orig. art. has: 6 figures.

SUB CODE: 11/ SUBM DATE: 04Sep64/ ORIG REF: 005/ OTH REF: 004

Card 2/2

GUREVICH, M.E., inzh.; ZHAK, L.B., inzh.

Economic efficiency of technological processes in forging.
Vost.mashinostr. 45 no.11:74-77 N '65.

(MIRA 18:12)

ZHAK, L.I. (Chelyabinsk)

Organization of cosmetic aid in Chelyabinsk Province. Vest. dermat.
i ven. 38 no.3:73-74 Mr '64. (MIRA 18:4)

ZHAK, L.Y.

ANDREYEV, Georgiy Ivanovich; ZHAK, Lyubov' Yefimovna; POPELLO, A.P., red.;
GORDNYCHIK, G.M., red.; KOGAN, V.V., tekhn. red.

[Machine for separating fibers from waste] Mashina dlia vydelenia
volikna iz uliuka. Pod red. A.P. Popello. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po legkoi promyshl., 1958. 27 p. (MIRA 11:7)
(Cotton gins and ginning)

GLAVATY, V. [Hlavaty, V.]; ZHAK, M. [Zak, M.]

Possibility of determining the response of the organism to small doses of ionizing radiation by examination of the phosphene threshold of the retina. Med. rad. 8 no.11:47-50 N '63.

(MIRA 17:12)

1. Iz meditsinskogo fakul'teta Biofizicheskogo instituta Karlova universiteta, Praga.

ACCESSION NR: AP4003130

S/0241/63/008/011/0047/0050

AUTHOR: Glavaty*, V.; Diyenstbiyer, Z. (Docent, Doctor of medicine); Zhak, M.

TITLE: Possibility of determining the response of an organism exposed to small doses of ionizing irradiation by estimating the phosphene threshold of the retina

SOURCE: Meditsinskaya radiologiya, v. 8, no. 11, 1963, 47-50

TOPIC TAGS: small dose irradiation effect, retina phosphene threshold, phosphene index, phosphene threshold measuring apparatus, Motokawa diagnostic method

ABSTRACT: Experiments were conducted over a 3 month period with 31 coworkers as subjects to test Motokawa's phosphene receptivity threshold method. With this method phosphene threshold values reportedly rise with increased radiation doses. Retina of the subject was electrostimulated and phosphene threshold was measured by a special square pulse source, assembled according to Motokawa's specifications. Phosphene threshold was measured again after the

Cord 1/2

ACCESSION NR: AP4003130

subject's eye was X-irradiated with a 50 mr dose. On the basis of many repeated experiments Motokawa's method was found to be highly unreliable for determining a subject's reaction to small radiation doses. Only in 28.57% of the cases could radiation damage be established by a higher phosphene threshold index. Phosphene thresholds are found to fluctuate considerably for the same subject over a relatively short period of time, and phosphene threshold values for all the subjects display a wide range of individual differences. Accuracy of this method cannot be improved because phosphene receptivity is always a subjective process depending on the emotional and physical state of the subject. Orig. art. has: 4 figs.

ASSOCIATION: Meditsinskiy fakul'tet biofizicheskogo instituta Karlova Universiteta, Praga (Medical Department of the Biophysical Institute of Charles University)

SUBMITTED: 03Mar62

DATE ACQ: 20Dec63

ENCL: 00

SUB CODE: AM

NO REF SOV: 001

OTHER: 003

Card 2/2

USTINOV, A.Ya.; ZHAK, N.F.

Using carbon dioxide to combat rodents at the Orekhovo-Zuyevo
Cold Storage plant. Khol. tekhn. 38 no.6:50-51 N-D '61.

(MIRA 15:1)

(Orekhovo-Zuyevo--Cold storage warehouses)
(Rodent control)

ZHAK, R.M.

Krasov, V.M. (Cand. of Biol. Sci), Fomina, A. Ya., Zhak, R.M., and Kudryavtseva, T.P.
(Candidates of Vet Sci).

"Isolation of the Fowl Pseudoplasma Virus from Amniotic and Allantoic Fluids of Embryos
by the V.I. Tovarnitskiy's Reagent,"

SO: Trud VIEV, Vol 18, 1951.

ZHAK, R.M. (Cand. Vet. Sci)

"Modifications of the Composition and Properties of the Blood of in Fowl Pseudoplagne,"

SO: Trud VIEV, Vol 18, 1951.

ZHAK, R.M. (Cand. Vet. Sci. Sen. Sci. Assoc., VIEV)

"Prenatal Diagnosis of Paratyphoid of Calves with the Aid of Agglutination Reaction,"

SO: Trud VIEV, Vol 18, 1951.

ZHAK, R.M.

AGAPOV, S.I.; FOMINA, A.Ya.; ~~ZHAK, R.M.~~; POLYAKOVA, O.A.

Results of field tests of virus-vaccine against Newcastle disease
in poultry. Veterinariia 31 no.2:26-28 F '54. (MLRA 7:2)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.
(Poultry--Diseases)

ZHAK, S., kand.tekhn.nauk

Unified precast reinforced concrete framework for large public
buildings. Zhil. stroi. no. 3:10-16 Mr '61. (MIRA 14:4)
(Precast concrete construction) (Public buildings)

ZHAK, S., kandidat tekhnicheskikh nauk.

Progressive construction for Moscow buildings. Stroi. mat.,
izdel. 1 konstr. 2 no.8:3-6 Ag '56. (MLRA 9:10)

1. Nachal'nik Tekhnicheskogo otdela Glaymosshelezobetona,
(Moscow--Building)

ZHAK, S.

Bubble screen. Znan.sila 31 no.9:32 8 '56. (MRS 9:10)
(Waves, Calming of)

ZHAK, S.

It is time to use tower cranes on elevator building projects.
Muk.-elev. prom. 20 no.4:26 Ap '54. (MLBA 7:7)

1. Ukrzagotstroy.
(Grain elevators) (Cranes, derricks, etc.)

ZHAK, S.M., kand.tekhn.nauk

Efficient construction elements of public buildings for
mass construction. Izv.ASiA no.3:99-120 '59.
(MIRA 13:6)

(Public buildings) (Precast concrete construction)

ZHAK, S.M., kandidat tekhnicheskikh nauk.

Temper and rated strength of concrete in precast reinforced and
plain concrete elements. Bet.i zhel.-bet. no.11:404-405 N '56.
(Concrete) (MLRA 9:12)

ZHAK, S. M.

32449. Shlyapin, B. B. Eksperimental'nyy kirpichnyy dvukhotazhnyy dom v Likhoborakh. Materialy i konstruktsii v sovrarkhitekture, No. 3, 1949, s. 75-83.

SO: Letopis' Zhurnal'nykh Staty Vol. 44

ZHAK, S.M., kand.tekhn.nauk

Precast concrete framework with compound joints for structures
serving various purposes. Izv.ASIA 4 no.1:63-72 '62. (MIRA 15:11)
(Precast concrete construction)

ZHAK, S. P.

N-Contagion Hospital, (-1944-).

"Neil-Felix's reaction in one vaccinated with Krontovskaya's typhus vaccine."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 1-2, 1944.

ZHAK, S.P.

Utilization of antibacteriophagic serum for improved method of
bacteriologic diagnosis of dysentery. Mikrobiol. zh., Kiev 15 no.1:
72-76 1953. (CML 25:5)

1. Of the Department of Microbiology of Odessa Medical Institute.

ZHAK, S.P.

USSR

The effect of *Clostridium perfringens* toxin on phagocytosis. S. M. Minervin, K. I. Chervyakova, and S. P. Zhak. (Sci. Research Inst. Vaccine and Serum, and Med. Inst., Odessa). *Microbiol. Zhur., Akad. Nauk Ukr. R.S.R.* 16, No. 3, 85-9 (1954) (Russian summary).—*C. perfringens* toxin, 18 days old, lowers the phagocytic properties of leucocytes of guinea pigs and rabbits. Serum antitoxic serum restores the level of phagocytosis in some instances. The degree of phagocytic activity depression differs with the toxins of different *perfringens* strains. Heat-inactivated toxin has no effect on the phagocytic properties of leucocytes. Rabbit leucocytes are more sensitive to the toxin than are those of guinea pigs. The unfavorable effect on phagocytosis of *perfringens* toxins 5 and 48 hours old is slight.

A. S. Levine

MINERVIN, S.M.; ZHAK, S.P.; CHERVYAKOVA, K.I.

Effect of tissue extracts from areas injured by gas infection on
phagocytosis. Mikrobiol.zhur. 16 no.4:78-81 '54. (MLRA 10:1)

1. Z Kafedri mikrobiologii Odes'kogo medichnogo institutu.
(PHAGOCYTOSIS) (GANGRENE) (TISSUE EXTRACTS)

MINERVIN, S.M.; ZHAK, S.P.; CHERVYAKOVA, K.I.

Observations on the sensitizing action of botulin toxin. Zhur.
mikrobiol.epid.i imun. no.5:48-53 My '55. (MLRA 8:7)

1. Iz kafedry mikrobiologii (zav. prof. S.M.Minervin) Odesskogo
meditsinskogo instituta imeni Pirogova (dir.-prof. I.Ya.Deyneka)
i Odesskogo instituta vaksyn i syvorotok imeni I.I.Mechnikova
(dir.-dotsent N.D.Anina-Radchenko).

(TOBULISM,
toxin, sensitizing action)

ZHAK, S.P.

MINERVIN, S.M.; ZHAK, S.P.

Studies on the role of Bac. oedematis toxin in experimental gas gangrene; effect of the toxin on phagocytosis. Mikrobiol. zhur. 17 no.2:22-28 '55 (MLRA 10:5)

1. Z kafedri mikrobiologii Odes'kogo medichnogo institutu.
(CLOSTRIDIUM, infections,
novyi, causing exper. gangrene, eff. of toxin on
phagocytosis) (Uk)
(GAS GANGRENE, experimental,
prod. with Clostridium novyi, eff. of toxin on phagocytosis)
(PHAGOCYTOSIS,
eff. of Clostridium novyi toxin in exper. gas gangrene)

ZHAK, S.P.

~~Combined action of hemotoxins of Clostridium perfringens and oedematiens.~~
Zhur.mikrobiol.epid. i immun. 27 no.12:61-64 D '56. (MIRA 10:1)

1. Iz kafedry mikrobiologii Odesskogo meditsinskogo instituta imeni
N.I.Pirogova.

(ESTERASES,

Clostridium perfringens toxin with hemotoxin of Cl.
oedematiens, hemolytic action (Rus))

(CLOSTRIDIUM,

oedematiens toxin, with Cl. perfringens toxin,
hemolytic action (Rus))

(HEMOLYSIS,

by Clostridium perfringens with Cl. oedematiens toxins (Rus))

ZHAK, S.P.

Combined effect of toxins of Clostridium perfringens and Vibrio
septique. Zhur.mikrobiol.epid. i immun. 28 no.6:73-78 Je '57.

(MIRA 10:10)

1. Iz kafedry mikrobiologii Odesskogo meditsinskogo instituta
imeni N.I.Pirogova.

(CLOSTRIDIUM PERFRINGENS,

toxin, combined eff. with Cl. septicum toxin (Rus))

(CLOSTRIDIUM,

septicum toxin, combined eff. with Cl. perfringens
toxin (Rus))

~~LEAK, S.P.~~
MINERVIN, S.M.; ZHAK, S.P.

Combined effect of hemotoxins of *Clostridium perfringens* and
oedematiens in the organisms of experimental animals. Zhur.
mikrobiol.epid. i immun. 28 no.11:99-103 N '57. (MIRA 11:3)

1. Iz Odesskogo meditsinskogo instituta imeni Pirogova.

(CLOSTRIDIUM PERFRINGENS,

toxin, eff. on animal organism, with *Clostridium*
oedematiens toxin (Rus)

(CLOSTRIDIUM,

oedematiens toxin, eff. on animal organism, with
Clostridium perfringens toxin (Rus)

MINERAVIN, S.M.; ZHAK, S.P.

Observations on specific therapy of mixed experimental infection caused by *Clostridium perfringens* and *oedematiens*. Zhur, mikrobiol. epid. i immun. 41 no.3:114-118 Mr '64. (MIRA 17:11)

1. Odesskiy meditsinskiy institut imeni Pirogova.

ZHAK, S.P.

Some data in favor of the enzymatic nature of the toxins of
Clostridium perfringens and oedematiens. Zhur. mikrobiol.,
epid. i immun. 42 no.11:65-69 N '65. (MIRA 18:12)

1. Odesskiy meditsinskiy institut imeni Pirogova. Submitted
April 6, 1964.

L 27198-66 EWT(1)/T JK

ACC NR: AP6017457

SOURCE CODE: UR/0016/66/000/001/0115/0117

AUTHOR: Minervin, S. M.; Zhak, S. P.

ORG: Odessa Medical Institute im. N. I. Pirogov (Odesskiy meditsinskiy institut)

TITLE: Effect of *Aspergillus terricola* protease on the lethal properties of type A *Clostridium perfringens* toxin

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 1, 1966, 115-117

TOPIC TAGS: enzyme, mouse, bacteriology, bacteria

ABSTRACT: *Aspergillus terricola* protease was added to *Cl. perfringens*, type A, in five series of in vitro and three series of in vivo tests to prove the theory that exotoxins intensify the effects of toxins by transforming inactive protoxins into active toxins, an hypothesis based on the fact that certain toxins, particularly those of gas bacilli, are complexes of various enzymes. No clear results were obtained from the in vitro tests. The toxin and enzyme were dissolved in buffer solutions of pH 5.0, 7.0 and 8.5, and administered to white mice intravenously either immediately or after 15, 30, 60, 90 or 120 minutes in a thermostat. Doses were 1, 0.6 and 0.25 Dlm. At pH 5.0 and 7.0 *Aspergillus terricola* protease intensified the lethal effects of *Cl. perfringens*, Type A, when administered immediately and after 15 and 30 minutes in the thermostat. The toxin partially disintegrated at pH 8.5 and with periods in the thermostat of one hour or more. Orig. art. has: 1 table.

[JPRS]

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UDC: 576.851.555.097.29.097:21:582.282.123.1-119:577.156.7

Card 1/1

E 28426-66 ENT(1)/T JK

ACC NR: AP6019116

SOURCE CODE: UR/0016/65/000/011/0065/0068

AUTHOR: Zhak, S.P.

ORG: Odessa Medical Institute im. N. I. Pirogov (Odesskiy meditsinskiy institut)

TITLE: Some evidence in favor of the enzymatic nature of Clostridium perfringens and oedematiens toxins

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 11, 1965, 65-68

TOPIC TAGS: enzyme, bacteria, bacteriology

ABSTRACT: The hemolytic and lethal activity of some dry Cl. perfringens toxins was intensified by one hour of incubation at 37°. Elevation of the temperature altered the hemolytic activity of Cl. perfringens and oedematiens toxins and mixtures of the two. The fact that temperature influenced the activity of the toxins was regarded by the author as an indication of their enzymatic nature. The hemolytic and lethal functions of the toxins were destroyed in mixtures incubated for several hours, apparently due to the action of the proteases of these toxins. This is additional proof of their enzymatic nature. (orig. art. has: 4 tables. [JPRS])

SUB CODE: 06/ SUBM DATE: 06Apr64 / ORIG REF: 004/ OTH REF: 009

Card 1/1 LC

UDC: 576.851.555.097.29:577.15

MINERVIN, S.M.; ZHAK, S.P.

Effect of *Aspergillus terricola* protease on the lethal properties of the toxin of *Clostridium perfringens* type A. Zhur. mikrobiol, epid. i immun. 43 no.1:115-117 Ja '66. (MIFA 19:1)

1. Odesk'iy meditsinskiy institut imeni N.I. Pirogova. Submitted January 14, 1965.

ZOLOTYKH, V.T., kand. tekhn. nauk; ZHAK, S.V., kand. fiz.-matem. nauk;
GUFAN, R.M., inzh.; BELOUSOV, Yu.G., inzh.

Mechanism of striking the welding arc. Svar. proizv. no.2:4-6
F '65. (MIRA 18:3)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo maslin-
stroyeniya.

ZHAK, S.V., kand. fiziko-matem. nauk

Designing belt-type grain handling machines. Izv. vyss.
ucheb. zav.; mashinostr. no.2:115-124 '63. (MIRA 16:8)

1. Rostovskiy institut sel'skokhozyaystvennogo mashino-
stroyeniya.